



IP SERVICES

Home IP Services PATENTSCOPE® Patent Search

(WO/2003/062163) ANTIMICROBIAL, WATER-INSOLUBLE SILICATE GLASS POWDER AND MIXTURE OF GLASS POWDERS

[Biblio. Data](#) [Description](#) [Claims](#) [National Phase](#) [Notices](#) [Documents](#)

Latest bibliographic data on file with the International Bureau



Pub. No.: WO/2003/062163 International Application No.: PCT/EP2003/000559

Publication Date: 31.07.2003 International Filing Date: 21.01.2003

Chapter 2 Demand Filed: 16.04.2003

IPC: A01N 59/16 (2006.01), C03C 12/00 (2006.01), C03C 3/062 (2006.01), C03C 3/091 (2006.01), C03C 3/093 (2006.01), C03C 8/22 (2006.01), C09D 5/14 (2006.01)

Applicants: SCHOTT GLAS [DE/DE]; Hattenbergstrasse 10, 55122 Mainz (DE) (AE, AG, AL, AM, AT, AZ, BA, BB, BE, BF, BG, BJ, BR, BY, BZ, CA, CF, CG, CH, CI, CM, CN, CO, CR, CU, CY, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, FR, GA, GD, GE, GH, GM, GN, GQ, GR, GW, HR, HU, ID, IS, IT, KE, KG, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MC, MD, MG, MK, ML, MN, MR, MW, MX, MZ, NE, NL, NO, OM, PH, PL, PT, RO, RU, SC, SD, SE, SI, SK, SL, SN, SZ, TD, TG, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZM, ZW only).

CARL-ZEISS-STIFTUNG TRADING AS SCHOTT GLAS [DE/DE]; Hattenbergerstrasse 10, 55122 Mainz (DE) (AU, BB, BF, BJ, BZ, CF, CG, CI, CM, GA, GB, GD, GE, GH, GM, GN, GQ, GW, IE, IL, IN, KE, KG, KP, KR, KZ, LC, LK, LR, LS, MG, ML, MN, MR, MW, MZ, NE, NZ, SD, SG, SL, SN, SZ, TD, TG, TT, TZ, UG, VC, VN, ZA, ZM, ZW only).

CARL-ZEISS-STIFTUNG [DE/DE]; 89518 Heidenheim (DE) (BB, BF, BJ, BZ, CF, CG, CI, CM, GA, GD, GE, GH, GM, GN, GQ, GW, JP, KE, KG, KZ, LC, LK, LR, LS, MG, ML, MN, MR, MW, MZ, NE, SD, SL, SN, SZ, TD, TG, TT, TZ, UG, VN, ZM, ZW only).

BEIER, Wolfram [DE/DE]; (DE) (US Only).

FECHNER, Jörg, Hinrich [DE/DE]; (DE) (US Only).

SCHNELL, Rupert [DE/DE]; (DE) (US Only).

ZIMMER, José [DE/DE]; (DE) (US Only).

Inventors: BEIER, Wolfram; (DE).
FECHNER, Jörg, Hinrich; (DE).
SCHNELL, Rupert; (DE).
ZIMMER, José; (DE).

Agent: Weltzel & Partner; Friedenstrasse 10, 89522 Heidenheim (DE).

Priority Data: 102 02 630.0 24.01.2002 DE

Title: (EN) ANTIMICROBIAL, WATER-INSOLUBLE SILICATE GLASS POWDER AND MIXTURE OF GLASS POWDERS
 (DE) ANTIMIKROBIELLES, WASSERUNLÖSLICHES SILICATGLASPULVER UND MISCHUNG VON GLASPULVERN

Abstract: (EN) The invention relates to an antimicrobial, water-insolvent silicate glass powder in which the initial glass contains 30-70 percent by weight of SiO₂, 0-1 percent by weight of Na₂O, 0-1 percent by weight of K₂O, 5-40 percent by weight of MgO, 0-40 percent by weight of CaO, 0-40 percent by weight of SrO, 0-40 percent by weight of BaO, 0-25 percent by weight of Al₂O₃, 0-20 percent by weight of P₂O₅, 0-20 percent by weight of B₂O₃. The sum of the alkali oxide contents is less than 1.5 percent by weight of the overall composition of the initial glass. The initial glass also contains ions or atoms of elements Ag, Zn, Cu, Ce, Te, or I representing a total fraction of < 2.5 percent by weight as a biocidal component.

(DE) Die Erfindung betrifft ein antimikrobielles, wasserunlösliches Silicatglasplver, wobei das Ausgangsglas SiO₂ 30-70 Gew.-% Na₂O 0-1 Gew.-% K₂O 0-1 Gew.-% MgO 5-40 Gew.-% CaO 0-40 Gew.-% SrO 0-40 Gew.-% BaO 0-40 Gew.-% Al₂O₃ 0-25Gew.-% P₂O₅ 0-20 Gew.-% B₂O₃ 0-20 Gew.-% umfasst. Die Erfindung ist dadurch gekennzeichnet, dass die Summe der Alkalioxidgehalte

kleiner 1,5 Gew.-% in der Gesamtzusammensetzung des Ausgangsglases ist und das Ausgangsglas als biozid wirkende Komponente des weiteren Ionen oder Atome der Elemente Ag, Zn Cu, Ce, Te oder I mit Gesamtanteilen < 2,5 Gew.-% umfassen.

Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
African Regional Intellectual Property Org. (ARIPO) (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW)
Eurasian Patent Organization (EAPO) (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM)
European Patent Office (EPO) (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR)
African Intellectual Property Organization (CAPI) (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Publication Language: German (DE)

Filing Language: German (DE)